

CLAIMS

Sub B²⁷
1. Device for fixing a plug in a support (100). with a piston (6) propelled by compressed gas, comprising a cylinder (5) in which the piston (6) is mounted, a combustion chamber (3), a combustion chamber sleeve (4) intended to close the chamber (3) at the rear with a cylinder head (2) and at the front with the piston (6) and the cylinder (5), a plug guide (8) acting as a probe for placing in abutment and for closing the combustion chamber (3), the device being characterised in that it comprises a pushing surface (30) and the abutment surface (29) which are respectively fixedly attached to the plug guide (8) and to the sleeve (4) and are arranged to be fixedly attached to each other in a rearward translational movement when the plug guide (8) is placed into abutment, in order to close the combustion chamber (3), and to become detached from each other upon recoil of the device in reaction to firing in order to ensure that the plug guide (8) is kept in abutment against the support (100).

2. Device according to claim 1, comprising means (20, 21) for rearwards driving of the sleeve (4), which are fixedly attached to the sleeve (4) and to which the said abutment surface (29) is fixedly attached.

3. Device according to claim 2, wherein the driving means comprise at least one driving arm (20, 21) fixedly attached, at one of its ends, to an abutment finger (23) provided with the said abutment surface (29).

4. Device according to claim 3, wherein the plug guide (8) comprises a groove (25) for receiving the abutment finger (23), provided with a front wall acting as a pushing surface (30).

A 5. Device according to one of claims ~~1 to 4~~, comprising a housing (1), to which the cylinder (5) is fixedly attached, and a plug guide support (7) which is fixedly attached to the cylinder (5), in which cylinder the plug guide (8) is mounted in a sliding manner. ✓

A 6. Fixing device according to one of claims ~~2 to 5~~, comprising means (35, 36) for returning ✓

the driving means (20, 21) towards the front.

7. Fixing device according to claim 6, wherein the return means (35, 36) are in abutment at the rear against the cylinder (5) and are arranged to cooperate at the front with at least one finger (24, 26) fixedly attached to the driving means in order to return the sleeve (4) to the front when the device is removed from abutment after firing.

add B³7

with?